

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	13	("0000000"   "2604569"   "2660199"   "2719207"   "20020014966"   "0266019"   "4483399"   "4669650"   "4728760"   "4736084"   "5285065"   "5721413"   "5721416"   "5924745").PN.	US-PGPUB; USPAT	ADJ	ON	2008/01/02 10:49
S2	4	"793402".pn.	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2008/01/02 11:36
S3	4	"521529".ap.	US-PGPUB; USPAT	ADJ	ON	2008/01/03 08:43
S4	247	tub\$5 and weld\$4 near5 (forge or diffus\$4) and clad \$5 and steel	US-PGPUB; USPAT	ADJ	ON	2008/01/03 13:06
S5	200	tub\$5 and weld\$4 near5 (forge or diffus\$4) and clad \$5 same steel	US-PGPUB; USPAT	ADJ	ON	2008/01/03 13:06
S6	160	tub\$5 and weld\$4 near5 forge and clad\$5 same steel	US-PGPUB; USPAT	ADJ	ON	2008/01/03 13:52
S7	47	tub\$5 and weld\$4 near5 forge and clad\$5 same steel and (flush\$4 or reduc \$4) near3 gas near5 inert	US-PGPUB; USPAT	ADJ	ON	2008/01/03 13:55
S8	6	tub\$5 and weld\$4 near5 forge and clad\$5 same steel and (flush\$4 or reduc \$4) near3 gas near5 inert	USPAT	ADJ	ON	2008/01/03 14:50
S9	5	(flush\$4 or reduc\$4) gas near inert and forge near5 weld\$3	US-PGPUB; USPAT	ADJ	ON	2008/01/03 16:08
S10	114	(flush\$4 or reduc\$4) gas same inert and forge near5 weld\$3	US-PGPUB; USPAT	ADJ	ON	2008/01/04 08:03
S11	1	"7147059".pn.	US-PGPUB; USPAT	ADJ	ON	2008/01/04 08:23
S12	2	"6485232".pn. or "6824328".pn.	US-PGPUB; USPAT	ADJ	ON	2008/01/04 08:25
S13	1	"6485232".pn. or "6824328".pn. and inert	US-PGPUB; USPAT	ADJ	ON	2008/01/04 08:25

S14	1	"6732794".pn.	US-PGPUB; USPAT	ADJ	ON	2008/01/04 08:26
S15	1	"6732794".pn. and inert	US-PGPUB; USPAT	ADJ	ON	2008/01/04 08:26
S16	0	vinegar.in. and inert near5 reducing near5 gas	US-PGPUB; USPAT	ADJ	ON	2008/01/04 08:28
S17	430	vinegar.in.	US-PGPUB; USPAT	ADJ	ON	2008/01/04 08:28
S18	98	vinegar.in. and inert same reducing same gas	US-PGPUB; USPAT	ADJ	ON	2008/01/04 08:28
S19	9253	steel and clad\$4 and tub\$5	US-PGPUB; USPAT	ADJ	ON	2008/01/04 08:32
S20	155	steel same clad\$4 same tub \$5 and forge near5 weld\$4	US-PGPUB; USPAT	ADJ	ON	2008/01/04 08:33
S21	352	shell.as. and welding and tub\$5	US-PGPUB; USPAT	ADJ	ON	2008/01/04 11:09
S22	398	shell.as. and welding and (tub\$5 or pipe)	US-PGPUB; USPAT	ADJ	ON	2008/01/04 11:10
S23	117	shell.as. and welding and (tub\$5 or pipe) and clad\$4	US-PGPUB; USPAT	ADJ	ON	2008/01/04 11:22
S24	66	("0266019"   "0619423"   "0781994"   "0954232"   "20020014966"   "20030033870"   "20040091076"   "20040093949"   "20040134970"   "2604569"   "2660199"   "2719207"   "2892914"   "3210068"   "3689113"   "4100809"   "4127035"   "4184374"   "4289030"   "4384657"   "4471658"   "4483399"   "4535215"   "4566625"   "4593568"   "4669650"   "4675728"   "4679448"   "4685334"   "4728760"   "4736084"   "5085082"   "5187343"   "5265787"   "5285065"   "5435478"   "5439157"   "5474225"   "5526691"   "5537876"   "5549003"   "5581037"   "5652389"   "5721413"   "5760307"   "5770832"   "5808202"   "5924745"   "5985064"   "6078031"   "6153848"   "6170336"   "6250163"   "6568271"   "6597997"   "6624628"   "6751560"). PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/01/04 11:32

S25	314	weld\$4 and tub\$5 and steel near5 high\$3 near4 grade and pipe	US-PGPUB; USPAT	ADJ	ON	2008/01/07 11:00
S26	392	weld\$4 and tub\$5 and steel near5 (high\$3 or low \$3) near4 grade and pipe	US-PGPUB; USPAT	ADJ	ON	2008/01/07 11:00
S27	96	weld\$4 and tub\$5 and steel near5 (high\$3 or low \$3) near4 grade and pipe and clad\$4	US-PGPUB; USPAT	ADJ	ON	2008/01/07 11:10
S28	10	weld\$4 and tub\$5 and steel near5 (high\$3 or low \$3) near4 grade near clad \$4 and pipe	US-PGPUB; USPAT	ADJ	ON	2008/01/07 11:37
S29	1	"6896171".pn.	US-PGPUB; USPAT	ADJ	ON	2008/01/07 11:48
S30	8	DenBoer.in.	US-PGPUB; USPAT	ADJ	ON	2008/01/07 11:51
S31	103	Den Boer.in.	US-PGPUB; USPAT	ADJ	ON	2008/01/07 11:52
S32	12	Den Boer.in. and shell.as.	US-PGPUB; USPAT	ADJ	ON	2008/01/07 11:53
S33	13	("0000000"   "2604569"   "2660199"   "2719207"   "20020014966"   "0266019"   "4483399"   "4669650"   "4728760"   "4736084"   "5285065"   "5721413"   "5721416"   "5924745").PN.	US-PGPUB; USPAT	ADJ	ON	2008/01/07 13:56
S34	0	S33 and clad\$4	US-PGPUB; USPAT	ADJ	ON	2008/01/07 13:56
S35	5	S33 and steel	US-PGPUB; USPAT	ADJ	ON	2008/01/07 13:56
S36	13	("0000000"   "2604569"   "2660199"   "2719207"   "20020014966"   "0266019"   "4483399"   "4669650"   "4728760"   "4736084"   "5285065"   "5721413"   "5721416"   "5924745").PN.	US-PGPUB; USPAT	ADJ	ON	2008/01/08 14:12
S37	1	"4669650".pn.	US-PGPUB; USPAT	ADJ	ON	2008/01/08 14:45
S38	10	clad\$4 near5 machin\$4 near5 pipe	US-PGPUB; USPAT	ADJ	ON	2008/01/08 16:09
S39	34	clad\$4 near5 machin\$4 near5 (pipe or tub\$5)	US-PGPUB; USPAT	ADJ	ON	2008/01/08 16:10
S40	556	clad\$4 same machin\$4 same (pipe or tub\$5)	US-PGPUB; USPAT	ADJ	ON	2008/01/08 16:17

S41	1	"4736084".pn.	US-PGPUB; USPAT	ADJ	ON	2008/01/09 14:59
S42	1	"5163604".pn.	US-PGPUB; USPAT	ADJ	ON	2008/01/09 15:00
S43	3	"621560".ap.	US-PGPUB; USPAT	ADJ	ON	2008/01/09 15:01
S44	5	"621287".ap.	US-PGPUB; USPAT	ADJ	ON	2008/01/09 15:02
S45	1	"7282663".pn.	US-PGPUB; USPAT	ADJ	ON	2008/01/09 15:03
S46	5	"557449".ap.	US-PGPUB; USPAT	ADJ	ON	2008/01/09 15:04
S47	5	"621823 ".ap.	US-PGPUB; USPAT	ADJ	ON	2008/01/09 15:06
S48	148	228/113.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/01/09 15:39
S49	5520	(tube or tubes or tubular or tubing or pipe or pipes or piping) same (weld\$4 or solder\$4 or braz\$4) same (concave or convex) with (end or wall or edge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/25 08:09
S50	1317	(tube or tubes or tubular or tubing or pipe or pipes or piping) same (weld\$4 or solder\$4 or braz\$4) same (concave or convex) with (end or wall or edge) and @py>="1975"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/25 08:12
S51	697	(tube or tubes or tubular or tubing or pipe or pipes or piping) same (weld\$4 or solder\$4 or braz\$4) same (concave or convex) with (wall or edge) and @py>="1975"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/25 08:19
S52	412234	S51 and "228".clas. or "219".clas. or "29".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/25 08:25
S53	109	S51 and ("228".clas. or "219".clas. or "29".clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/25 08:26
S54	0	("2004/0232207").URPN.	USPAT	ADJ	ON	2008/09/25 08:52

S55	8104	(weld\$4 or solder\$4 or braz \$4) same (flush\$4 or reduc \$4 or inert) near5 gas	USPAT	ADJ	ON	2008/09/25 09:04
S56	115	(weld\$4 or solder\$4 or braz \$4) same (flush\$4 or reduc \$4 or inert) near5 gas same "9"\$1 near5 inert	USPAT	ADJ	ON	2008/09/25 09:05
S57	866	(weld\$4 or solder\$4 or braz \$4) same (flush\$4 or reduc \$4 or inert) near5 gas same (H or hydrogen or CO or carbon near2 monoxide)	USPAT	ADJ	ON	2008/09/25 09:13
S58	866	(weld\$4 or solder\$4 or braz \$4) same (flush\$4 or reduc \$4 or inert) near5 gas same (H or hydrogen or CO or (carbon near2 monoxide))	USPAT	ADJ	ON	2008/09/25 09:15
S59	496	(weld\$4 or solder\$4 or braz \$4) same (flush\$4 or reduc \$4 or inert) near5 gas same (H or hydrogen or CO or (carbon near2 monoxide)) same (He or Ar or N or "CO.sub.2." or helium or argon or nitrogen or (carbon near2 dioxide))	USPAT	ADJ	ON	2008/09/25 09:16
S60	375	(weld\$4 or solder\$4 or braz \$4) same (flush\$4 or reduc \$4 or inert) near5 gas same (H or hydrogen or CO or (carbon near2 monoxide)) with (He or Ar or N or "CO.sub.2." or helium or argon or nitrogen or (carbon near2 dioxide))	USPAT	ADJ	ON	2008/09/25 09:17
S61	58	(weld\$4 or solder\$4 or braz \$4) same (flush\$4) near5 gas same (H or hydrogen or CO or (carbon near2 monoxide)) with (He or Ar or N or "CO.sub.2." or helium or argon or nitrogen or (carbon near2 dioxide))	USPAT	ADJ	ON	2008/09/25 09:19
S62	8	(US-4382525-\$ or US-4384657-\$ or US-4451506-\$ or US-5361972-\$ or US-3941299-\$ or US-4210839-\$ or US-3948432-\$ or US-4016011-\$).did.	USPAT	ADJ	ON	2008/09/25 09:27

S63	7	S62 and steel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/25 09:27
S64	2	S62 and steel and (tube or tubes or tubular or tubing or pipe or pipes or piping) same (weld\$4 or solder\$4 or braz\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/25 09:28
S65	1	S64 and (H or hydrogen or CO or (carbon near2 monoxide)) with (He or Ar or N or "CO.sub.2." or helium or argon or nitrogen or (carbon near2 dioxide))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/25 09:30
S66	6	S63 and (H or hydrogen or CO or (carbon near2 monoxide)) with (He or Ar or N or "CO.sub.2." or helium or argon or nitrogen or (carbon near2 dioxide))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/25 09:37
S67	6	S63 and (H or hydrogen or CO or (carbon near2 monoxide)) with (He or Ar or N or "CO.sub.2." or helium or argon or nitrogen or (carbon near2 dioxide)) and steel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/25 09:37
S68	4	(US-4451506-\$ or US-4382525-\$ or US-3948432-\$ or US-3941299-\$).did.	USPAT	ADJ	ON	2008/09/25 09:42
S69	4	S68 and weld\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/25 09:42
S70	7	S62 and weld\$4	USPAT	ADJ	ON	2008/09/25 10:01
S71	6	S70 and (H or hydrogen or CO or (carbon near2 monoxide)) with (He or Ar or N or "CO.sub.2." or helium or argon or nitrogen or (carbon near2 dioxide))	USPAT	ADJ	ON	2008/09/25 10:01

S72	6	S71 and (H or hydrogen or CO or (carbon near2 monoxide)) with (He or Ar or N or "CO.sub.2." or helium or argon or nitrogen or (carbon near2 dioxide))	USPAT	ADJ	ON	2008/09/25 10:02
S73	453664	"228".clas. or "219".clas. or "29".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/19 09:00
S74	5564	(tube or tubes or tubular or tubing or pipe or pipes or piping) same (weld\$4 or solder\$4 or braz\$4) same (concave or convex) with (end or wall or edge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/19 09:01
S75	747	S73 and S74	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/19 09:01
S76	32	("1260690"   "2497631"   "2719207"   "2892914"   "2998646"   "20020014514"   "20030080604"   "20040134970"   "3210068"   "3689113"   "4100809"   "4152568"   "4384657"   "4483399"   "4535215"   "4947462"   "5009737"   "5163604"   "5187343"   "5265787"   "5435478"   "5686002"   "5770832"   "5958064"   "6078031"   "6378760").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/19 09:11
S77	7	S76 and forge near3 weld \$4	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/19 09:12
S78	25	S76 not S77	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/19 09:15
S79	2	((("20040232207") or ("20050050726"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/07/14 15:13
S80	0	("2004/0232207").URPN.	USPAT	ADJ	ON	2009/07/14 15:19

S81	21	("2719207"   "2892914"   "20020014514"   "20020093431"   "4535215"   "4548341"   "4566625"   "4669650"   "4728760"   "4736084"   "4947012"   "5142128"   "5265787"   "5347101"   "5439157"   "5474225"   "5652389"   "5686002"   "5721413"   "5760307"   "5808202"   "5924745"   "6153848").PN.	USPAT	ADJ	ON	2009/07/14 15:20
S82	42	("2604569"   "2719207"   "2892914"   "200300336870a1"   "20040091076"   "20040093949"   "20040134970"   "3210068"   "3689113"   "4127035"   "4184374"   "4289030"   "4384657"   "4471658"   "4535215"   "4566625"   "4669650"   "4675728"   "4679448"   "4685334"   "4728760"   "4736084"   "5293568"   "5085082"   "5187343"   "5265787"   "5435478"   "5537876"   "5549003"   "5581037"   "5652389"   "5721413"   "5760307"   "5770832"   "5808202"   "5924745"   "5985064"   "6078031"   "6153848"   "6170336"   "6250163"   "6568271"   "6597997"   "6624628"   "6751560"   "0954232").PN.	USPAT	ADJ	ON	2009/07/14 15:25
S83	13	(US-20050236372-\$ or US- 20030080604-\$ or US- 20040134970-\$).did. or (US-4669650-\$ or US- 2604569-\$ or US-4384657- \$ or US-4382525-\$ or US- 4210839-\$ or US-3948432- \$ or US-3941299-\$ or US- 4451506-\$ or US-5924745- \$ or US-5721413-\$).did.	US-PGPUB; USPAT	ADJ	ON	2009/07/14 16:00
S84	6	S83 and forg\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/14 16:00



**7/ 16/ 2009 11:31:49 AM**

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